	TECHNICAL DATA SHEET FIBAROLL FRM1	Department:	R&D
		Doc Ref:	R&D-E0004
		Revision:	01
		Master Issue Date:	17/3/16

Source Document(s):	
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Technical Data Sheet Polyester Fire Retardant Low Smoke:

FIBAROLL FR M1

Product Description: based upon an Isophthalic Polyester Resin reinforced with chopped glass fibers and surfacing tissue. The product is delivered in thickness of between 1.5mm and 2.5mm on rolls 600mm or 1000mm wide by 10m long and narrower slit reels to suit. The product cures with U/V light in the wavelength 365 – 420nm at temperatures between –15 and +70°C. There have been successful applications at temperatures as low as -30°C, however before attempting these please contact us for specific training and recommendation.

This system has been developed for its fire performance, M1 NFP92-501 Epiradiateur Test, BS476 Part 7 Class 0, ASTM E84 Class A, ASTM D635 (HB) [RINA No: MAC343110CS/001] and its low smoke evolution on burning with no harmful gas levels and low surface flammability as defined by the International Maritime Organization Resolution MSC 307 (88) Annex 1 Parts 2 and 5. Tests carried out by Warrington Fire Research and Intertek Group (Texas).

These materials conform to the CINI specification and are within the Shell DEP.

FibaRoll can be used as a sheet cut from the roll, slit reels applied as a spiral wrap or used as a moulding material for terminations.

Colours: Our standards are natural, off white, and grey however bespoke RAL colours are available.

Delivered on rolls 600 or 1000 mm x 10m or as slit reels for spiral wrapping - sizes dependant on application.

Thickness: 1.5 - 2.5 mm

Storage: Recommended storage temperatures, < 25°C.

Shelf life (unopened and within original packaging): 12 months from DOM.

For technical advice and sales please contact: FTi Head Office:


Fiba Tech Industries Ltd.
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Created By N Holdsworth

Approved By N Smallwood

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Grade: FibaRoll FR M1

Technical Data

Typical Physical Properties	Units	Value	Method
Tensile Strength	MPa	71	ASTM D3039
Tensile Elongation at Break	%	1.25	ASTM D3039
Flexural Strength	MPa	143	ASTM D790-03
Compressive Strength	MPa	138	ASTM D695
Impact Resistance (Izod)	KJ/M ²	70	ASTM D256-06
Barcol Hardness	Barcol	71	ASTM D2583
Max Service/Operating Temp	Deg °C	90*	
Heat Distortion Temp	Deg °C	>255	ASTM D648
Water Vapour Permeability	g/(m ² .h.mmHg)	0.006	ASTM E96
		0.001 **	
Flame Spread ASTM E84	index	15/50	ASTM E84
NFP 92-501 Epiradiateur Test	index	M1	NFP 92-501
Flame Spread BS476 pt6 & 7	index	Class 0	BS476 pt6 & 7
Smoke and Toxicity and Surface Flammibility	index	Pass	IMO Resolution MSC 307 (88) Annex 1 Parts 2 and 5

* Advice from FTI should be requested if operating temperatures are expected above 70°C to ensure that terminations are conservatively designed. It is our standard advice to use vinyl ester materials at terminations - see FibaRoll / FibaClad VEFR data sheet together with appropriate sealants

** Result in combination with a PAP / Mylar vapour barrier as used in cold insulation systems.

All data are average values as per standard test methods.

FibaRoll/FibaClad is not hazardous for transport

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